

IN THE CLAIMS

Please amend claims 25 and 29 as indicated below.

The listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claim 1 (previously presented) A file review system for storing and managing a set of comments associated with a source file, comprising

means for requesting the source file using unmodified standard messaging protocols,

means for accepting data from the source file and storing a representation of the source file as a markup file,

means for creating a comment file containing data representing the set of comments associated with the source file,

means for accepting new comments for inclusion in the set of comments associated with the source file and for updating the comment file to correspond to the complete set of comments,

means for generating a hypertext document from the markup file and from the comment file, the hypertext document corresponding to the source file and including portions corresponding to one or more of the set of comments associated with the source file,

means for communicating the hypertext document to a user for display.

Claim 2 (original) The file review system of claim 1 in which the means for

accepting data from the source file and storing the source file as a markup file further comprises means for representing the source file as a linked list of objects corresponding to a hypertext representation of the source file, wherein the markup file is a binary file representation of the linked list.

Claim 3 (original) The file review system of claim 2 in which the means for representing the source file as a linked list of objects further comprises means for inserting comment insertion objects into the linked list of objects and in which the means for generating a hypertext document further comprises means to include hypertext data in the hypertext document to display one or more symbols representing each comment insertion object.

Claim 4 (original) The file review system of claim 3 in which the one or more symbols representing each comment insertion object comprise a hypertext link to a hypertext form for user input of a comment.

Claim 5 (original) The file review system of claims 3 or 4 in which the means for representing the source file as a linked list of objects further comprises means for inserting comment display objects into the linked list of objects, each comment display object being associated with a comment insertion object and in which the means for generating a hypertext document further comprises means to include hypertext data in the hypertext document to display comments in accordance with the corresponding comment display objects.

Claim 6 (original) The file review system of claim 5 in which each one of the comment display objects comprises

open tag data representing the open hypertext tags, at the location of the

comment display object, in the linked list of objects

and in which the means for generating a hypertext document further comprises

means to insert closing hypertext data in the hypertext document, prior to a selected one of the comments being displayed in the hypertext document, and means to insert reopening hypertext data in the hypertext document, following the selected one of the comments being displayed in the hypertext document,

the closing hypertext data and the reopening hypertext data both being defined by the open tag data for the comment display object associated with the selected one of the comments being displayed.

Claim 7 (original) The file review system of claim 2 in which the means for representing the source file as a linked list of objects further comprises

a means for normalizing the linked list of objects whereby

objects representing text are enclosed by objects representing paragraph tags,

end of sentence indicators in objects in the linked list are represented in text,

objects representing hypertext end tags are selectively located in the linked list to close all hypertext tags, and

objects representing unnecessary hypertext tags are removed from the linked list.

Claim 8 (original) The file review system of claim 2 in which the linked list of objects comprises objects appropriately selected from the set of objects comprising simple tag objects, tag objects, end tag objects, text objects, comment insertion objects, comment display objects, complex whitespace objects, spaces objects, newlines

objects, hypertext comment objects, ordered list item tag objects, and link tag objects.

Claim 9 (previously cancelled)

Claim 10 (original) The file review system of claim 1 in which the means for generating a hypertext document further comprises means to generate a hypertext document which corresponds to a predefined subsection of the markup file and the associated subsection of the comment file.

Claim 11 (original) The file review system of claim 2 in which

each object in the linked list of objects has a type, and comprises contents derived from a portion of the source file,

each comment insertion object and each comment display object comprises a contents line identifier, representing the line number defining the location of the object in relation to the source file,

the comment file consists of comment line identifier data associated with the set of comments representing the line numbers in the source file with which each comment is related,

and in which the means for generating a hypertext document further comprises means to traverse the linked list of objects comprising, and means to select a display object from the linked list of objects,

means to determine the type of the display object,

means to generate hypertext data to correspond to the type of the display object and the contents of the display object,

means to identify the contents line identifier for the display object and for selecting comment display data from the comment file based on the contents line identifier and the comment line identifiers of the comment file,

means to generate hypertext data from the comment file representing the selected one of the set of comments corresponding to the comment line identifier associated with the contents line identifier.

Claim 12 (previously cancelled)

Claim 13 (original) The file review system of claim 2, in which the means for generating a hypertext document comprises means for selectively excluding portions of the comment file corresponding to one or more comments in the set of comments, whereby a selectively defined subset of the set of comments is represented in the hypertext document.

Claim 14 (original) The file review system of claim 13, in which comments comprise comment attributes, the means for selectively excluding portions of the comment file further comprising means for selectively defining the subset of the set of comments by selection based on comment attributes.

Claim 15 (original) The file review system of claim 14 in which the comment attributes comprise one or more of comment type, comment severity, comment date, comment status, comment author, and comment content.

Claim 16 (original) The file review system of claim 1 in which system users are uniquely identified in the system and in which the means for accepting new comments further comprises means for selectively restricting the inclusion of new comments in the set of comments based on the unique identity of system users.

Claim 17 (original) The file review system of claim 1 in which the source file is

associated with a defined cutoff date and in which the means for accepting new comments further comprises means for selectively restricting the inclusion of new comments on dates past the defined cutoff date.

Claim 18 (original) The file review system of claim 1 further comprising means to navigate the comment file to provide user access to comments in user-defined sequenced order.

Claim 19 (original) The file review system of claim 1 further comprising means to collect and display statistics relating to the set of comments.

Claim 20 (original) The file review system of claim 19 in which the means to collect and display statistics further comprises means for displaying hypertext links in the statistics display whereby a user may access a selected subset of the set of comments by means of the hypertext link.

Claim 21 (previously presented) A web-based file review system for storing and managing comments from a plurality of reviewers, the comments being associated with one or more webs of source files, comprising

a parser to parse a selected one of the set of source files into a linked list of objects corresponding to a hypertext representation of the selected source file, the linked list further comprising comment insertion objects and comment display objects, the parser writing the linked list of objects to a binary markup file representing the linked list of objects and corresponding to the selected one of the set of source files, each comment display object being capable of being associated with one or more comments,

a set of comment files, each comment file being associated with a one of the

set of source files and comprising data representing comments associated with the one of the set of source files,

common gateway interface program code means for accepting new comments for inclusion in the set of comments associated with a reviewer-defined source file and for updating the associated comment file,

common gateway interface program code means for generating a hypertext document from a markup file corresponding to reviewer-selected source file and from the associated comment file, the hypertext document corresponding to the reviewer-selected source file, wherein said source file is selected using unmodified standard messaging protocols,
and

the hypertext document including portions corresponding to one or more of the set of comments associated with the reviewer-selected source file, the hypertext data for each portion relating to a comment to be displayed being defined by the associated comment display object,

the hypertext document selectively including hypertext links representing comment insertion objects, the hypertext links providing reviewers with forms for reviewer entry of comments,

the hypertext document selectively including hypertext data for calling the common gateway interface program for generating a hypertext document and the hypertext document selectively including hypertext data for calling the common gateway interface program for accepting new comments,

means for communicating the hypertext document to a browser for display.

Claim 22 (original) The system of claim 21, in which each one of the comment display objects comprises

open tag data representing the open hypertext tags, at the location of the

comment display object, in the linked list of objects,

and in which the common gateway interface program code means for generating a hypertext document further comprises

means to insert closing hypertext data in the hypertext document, prior to a selected one of the comments being displayed in the hypertext document, and means to insert reopening hypertext data in the hypertext document, following the selected one of the comments being displayed in the hypertext document,

the closing hypertext data and the reopening hypertext data both being defined by the open tag data for the comment display object associated with the selected one of the comments being displayed.

Claim 23 (original) The system of claim 21 in which the linked list of objects comprises objects appropriately selected from the set of objects comprising simple tag objects, tag objects, end tag objects, text objects, comment insertion objects, comment display objects, complex whitespace objects, spaces objects, newlines objects, hypertext comment objects, ordered list item tag objects, and link tag objects.

Claim 24 (original) The system of claim 21 in which

each object in the linked list of objects has a type, and comprises contents derived from a portion of the source file,

each comment insertion object and each comment display object comprises a contents line identifier, representing the line number defining the location of the object in relation to the source file,

the comment file consists of comment line identifier data associated with the set of comments representing the line numbers in the source file with which each comment is related,

and in which the common gateway interface program code means for

generating a hypertext document further comprises

means to traverse the linked list of objects, and means to select a display object from the linked list of objects,

means to determine the type of the display object,

means to generate hypertext data to correspond to the type of the display object and the contents of the display object,

means to identify the contents line identifier for the display object and for selecting comment display data from the comment file based on the contents line identifier and the comment line identifiers of the comment file, and

means to generate hypertext data from the comment file representing the selected one of the set of comments corresponding to the comment line identifier associated with the contents line identifier.

Claim 25 (currently amended) An article of manufacture comprising:

a computer usable medium having computer readable program code means embodied therein for causing the storage and management of comments in a web-based file review system, the comments being from a plurality of reviewers, and being associated with one or more webs of source files, the computer readable program code means in the article of manufacture comprising

computer readable program code means for causing a computer to parse a selected one of the set of source files into a linked list of objects corresponding to a hypertext representation of the selected source file, the linked list further comprising comment insertion objects and comment display objects, the parser writing the linked list of objects to a binary markup file representing the linked list of objects and corresponding to the selected one of the set of source files, each comment display object associated with one or more comments,

computer readable program code means for causing the computer to

create and manage a set of comment files, each comment file being associated with a one of the set of source files and comprising data representing comments associated with the one of the set of source files,

computer readable program code means for causing the computer to accept new comments for inclusion in the set of comments associated with a reviewer-defined source file and to update the associated comment file,

computer readable program code means for causing the computer to generate a hypertext document from a markup file corresponding to reviewer-selected source file and from the associated comment file, the hypertext document corresponding to the reviewer-selected source file, wherein said source file is selected responsive to ~~conventional~~ browser requests and

the hypertext document including portions corresponding to one or more of the set of comments associated with the reviewer-selected source file, the hypertext data for each portion relating to a comment to be displayed being defined by the associated comment display object,

the hypertext document selectively including hypertext links representing comment insertion objects, the hypertext links providing reviewers with forms for reviewer entry of comments,

the hypertext document selectively including hypertext data for calling the common gateway interface program for generating a hypertext document and the hypertext document selectively including hypertext data for calling the common gateway interface program for accepting new comments,

computer readable program code means for causing the computer to communicate the hypertext document to a browser for display.

Claim 26 (original) The article of manufacture of claim 25, in which each one of the comment display objects comprises

open tag data representing the open hypertext tags, at the location of the comment display object, in the linked list of objects,

and in which the computer readable program code means for causing the computer to generate a hypertext document further comprises

means to insert closing hypertext data in the hypertext document, prior to a selected one of the comments being displayed in the hypertext document, and means to insert reopening hypertext data in the hypertext document, following the selected one of the comments being displayed in the hypertext document,

the closing hypertext data and the reopening hypertext data both being defined by the open tag data for the comment display object associated with the selected one of the comments being displayed.

Claim 27 (original) The article of manufacture of claim 25 in which the linked list of objects comprises objects appropriately selected from the set of objects comprising simple tag objects, tag objects, end tag objects, text objects, comment insertion objects, comment display objects, complex whitespace objects, spaces objects, newlines objects, hypertext comment objects, ordered list item tag objects, and link tag objects.

Claim 28 (original) The article of manufacture of claim 25 in which

each object in the linked list of objects has a type, and comprises contents derived from a portion of the source file,

each comment insertion object and each comment display object comprises a contents line identifier, representing the line number defining the location of the object in relation to the source file,

the comment file consists of comment line identifier data associated with the set of comments representing the line numbers in the source file with which each

comment is related,

and in which the computer readable program code means for causing the computer to generate a hypertext document further comprises

means to traverse the linked list of objects, and means to select a display object from the linked list of objects,

means to determine the type of the display object,

means to generate hypertext data to correspond to the type of the display object and the contents of the display object,

means to identify the contents line identifier for the display object and for selecting comment display data from the comment file based on the contents line identifier and the comment line identifiers of the comment file, and

means to generate hypertext data from the comment file representing the selected one of the set of comments corresponding to the comment line identifier associated with the contents line identifier.

Claim 29 (currently amended) A computer program product for use with a hypertext server, the computer program product comprising:

a computer usable medium having computer readable program code means embodied in the medium for causing the storage and management of comments in a web based file review system, the comments being from a plurality of reviewers, and being associated with one or more webs of source files, the computer program product having:

computer readable program code means for causing a computer to parse a selected one of the set of source files into a linked list of objects corresponding to a hypertext representation of the selected source file, the linked list further comprising comment insertion objects and comment display objects, the parser writing the linked list of objects to a binary markup file representing the linked

list of objects and corresponding to the selected one of the set of source files, each comment display object associated with one or more comments,

computer readable program code means for causing the computer to create and manage a set of comment files, each comment file being associated with a one of the set of source files and comprising data representing comments associated with the one of the set of source files, computer readable program code means for causing the computer to accept new comments for inclusion in the set of comments associated with a reviewer-defined source file and to update the associated comment file,

computer readable program code means for causing the computer to generate a hypertext document from a markup file corresponding to reviewer-selected source file and from the associated comment file, the hypertext document corresponding to the reviewer-selected source file, wherein said source file is selected responsive to ~~conventional~~ browser requests, and

the hypertext document including portions corresponding to one or more of the set of comments associated with the reviewer-selected source file, the hypertext data for each portion relating to a comment to be displayed being defined by the associated comment display object,

the hypertext document selectively including hypertext links representing comment insertion objects, the hypertext links providing reviewers with forms for reviewer entry of comments,

the hypertext document selectively including hypertext data for calling the common gateway interface program for generating a hypertext document and the hypertext document selectively including hypertext data for calling the common gateway interface program for accepting new comments,

computer readable program code means for causing the computer to communicate the hypertext document to a browser for display.

Claim 30 (original) The computer program product of claim 29, in which each one of the comment display objects comprises

open tag data representing the open hypertext tags, at the location of the comment display object, in the linked list of objects,

and in which the computer readable program code means for causing the computer to generate a hypertext document further comprises

means to insert closing hypertext data in the hypertext document, prior to a selected one of the comments being displayed in the hypertext document, and means to insert reopening hypertext data in the hypertext document, following the selected one of the comments being displayed in the hypertext document,

the closing hypertext data and the reopening hypertext data both being defined by the open tag data for the comment display object associated with the selected one of the comments being displayed.

Claim 31 (original) The computer program product of claim 29 in which the linked list of objects comprises objects appropriately selected from the set of objects comprising simple tag objects, tag objects, end tag objects, text objects, comment insertion objects, comment display objects, complex whitespace objects, spaces objects, newlines objects, hypertext comment objects, ordered list item tag objects, and link tag objects.

Claim 32 (original) The computer program product of claim 29 in which

each object in the linked list of objects has a type, and comprises contents derived from a portion of the source file,

each comment insertion object and each comment display object comprises a contents line identifier, representing the line number defining the location of the object in relation to the source file,

the comment file consists of comment line identifier data associated with the set of comments representing the line numbers in the source file with which each comment is related,

and in which the computer readable program code means for causing the computer to generate a hypertext document further comprises

means to traverse the linked list of objects, and means to select a display object from the linked list of objects,

means to determine the type of the display object,
means to generate hypertext data to correspond to the type of the display object and the contents of the display object,

means to identify the contents line identifier for the display object and for selecting comment display data from the comment file based on the contents line identifier and the comment line identifiers of the comment file, and

means to generate hypertext data from the comment file representing the selected one of the set of comments corresponding to the comment line identifier associated with the contents line identifier.

Claim 33 (previously presented) A method for storing and managing a set of comments associated with a source file, in a file review system, the method comprising the steps of

requesting the source file using unmodified standard messaging protocols,
accepting data from the source file and storing a representation of the source file as a markup file,

creating a comment file containing data representing the set of comments associated with the source file,

responding to user input to accept new comments for inclusion in the set of comments associated with the source file and for updating the comment file to

correspond to the complete set of comments,

responding to user input to dynamically generate a hypertext document from the markup file and from the comment file, the hypertext document corresponding to the source file and including portions corresponding to one or more of the set of comments associated with the source file,

communicating the hypertext document to a user for display.

Claim 34 (original) The method of claim 33 in which the step of accepting data from the source file and storing the source file as a markup file comprises the step of representing the source file as a linked list of objects corresponding to a hypertext representation of the source file, wherein the markup file is a binary file representation of the linked list

Claim 35 (original) The method of claim 34 in which the step of representing the source file as a linked list of objects further comprises the step of inserting comment insertion objects into the linked list of objects and in which step of generating a hypertext document further comprises the step of including hypertext data in the hypertext document to display one or more symbols representing each comment insertion object.

Claim 36 (original) The method of claim 35 in which the step of including hypertext data in the hypertext document to display one or more symbols representing each comment insertion object further comprises the step of including a hypertext link to a hypertext form for user input.

Claim 37 (original) The method of claims 35 or 36 in step of representing the source file as a linked list of objects further comprises the step of inserting comment display

objects into the linked list of objects, each comment display object being associated with a comment insertion object and in which the step of generating a hypertext document further comprises the step of including hypertext data in the hypertext document to display comments in accordance with the corresponding comment display objects.

Claim 38 (original) The method of claim 37 in which each one of the comment display objects comprises

open tag data representing the open hypertext tags, at the location of the comment display object, in the linked list of objects

and in which the step of generating a hypertext document further comprises the steps of

inserting closing hypertext data in the hypertext document, prior to a selected one of the comments being displayed in the document, and inserting reopening hypertext data in the hypertext document, following the selected one of the comments being displayed in the hypertext document,

the closing hypertext data and the reopening hypertext data both being defined by the open tag data for the comment display object associated with the selected one of the comments being displayed.

Claim 39 (previously presented) A method for storing and managing comments in a web-based file review system, the comments being from a plurality of reviewers and being associated with one or more webs of source files, comprising the steps of

parsing a selected one of the set of source files into a linked list of objects corresponding to a hypertext representation of the selected source file, the linked list further comprising comment insertion objects and comment display objects, the parser writing the linked list of objects to a binary markup file representing the linked

list of objects and corresponding to the selected one of the set of source files, each comment display object associated with one or more comments,

on review request, accepting new comments for inclusion in the set of comments associated with a reviewer-defined source file and for updating an associated comment file, the comment file being associated with a one of the set of source files and comprising data representing comments associated with the one of the set of source file,

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steps for storing and managing comments in a web-based file review system, the method steps comprising the steps of claims 33, 34, 35, 36, 37, or 38.

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40
Claim 41 (original) A program storage device readable by a machine, tangibly embodying a program of instructions executable by the machine to perform method steps for storing and managing comments in a web-based file review system, the method steps comprising the steps of claim 39.
